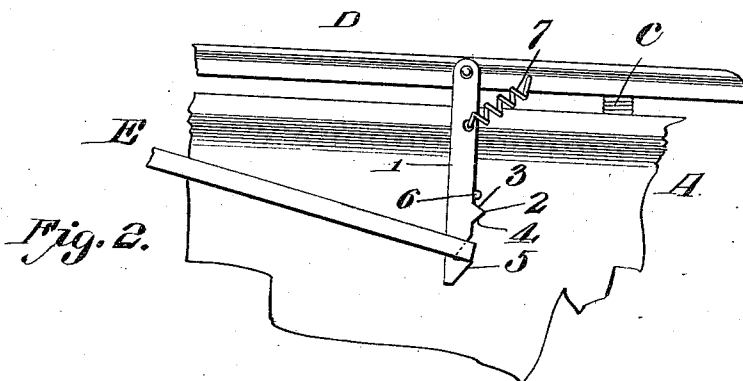
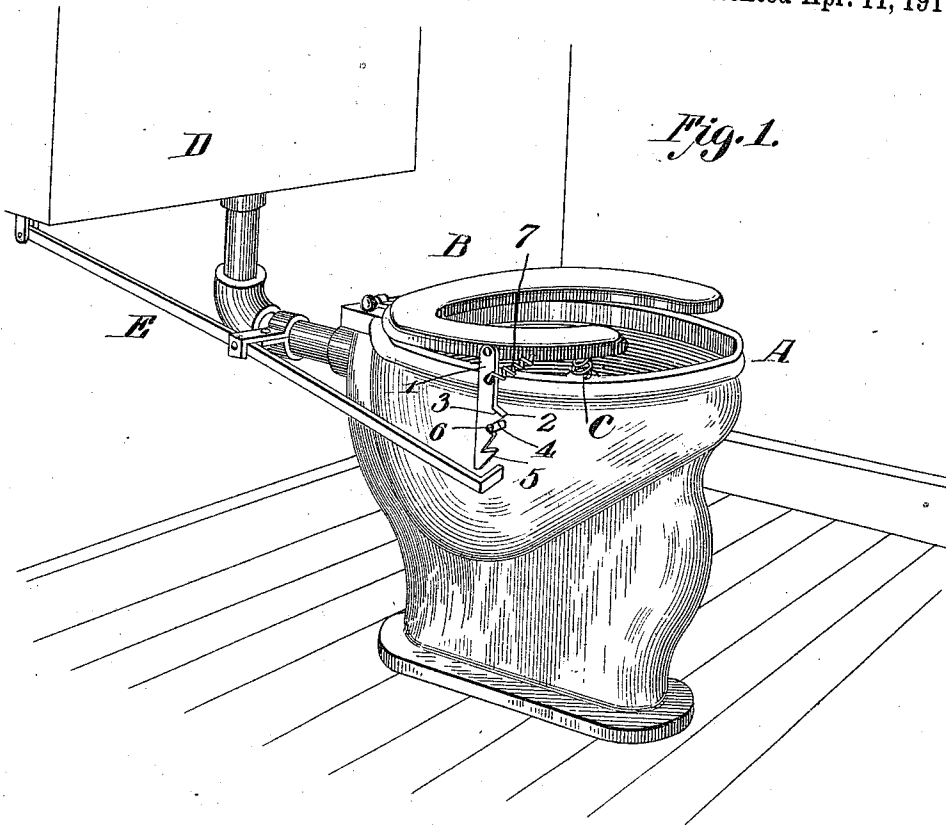


J. E. FURLONG.
FLUSHING APPARATUS.
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989,496.

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FLUSHING APPARATUS.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JAMES EARL FURLONG, a citizen of the United States of America, residing at Graysville, in the county of Rhea and State of Tennessee, have invented new and useful Improvements in Flushing Apparatus, of which the following is a specification.

This invention relates to automatic controlling mechanism for flushing apparatus for closet bowls, the object of the invention being to provide novel and effective means which may be applied to the bowl and attached to the controlling lever of the flushing apparatus to actuate the same automatically.

In the drawing, forming a portion of this specification and in which like numerals of reference indicate similar parts in the several views:—Figure 1 is a detail perspective view of a closet bowl showing my improved controlling mechanism applied thereto. Fig. 2 is a detail side elevation of the mechanism showing the same in a position to move the controlling handle to a position to flush the bowl.

My improved apparatus is used in connection with the bowl of a design like that illustrated particularly at A in the drawing, the said bowl being provided with a hingedly mounted seat B which is normally held in an elevated position by a spring or the equivalent thereof C. The bowl, as shown, conventionally, is provided with a flushing apparatus D which may be of any well known suitable design which may be used in connection with my improved automatically operated controlling mechanism. As illustrated, the flushing apparatus is provided with a valve controlling handle E which extends outwardly at one side of the bowl adjacent to the seat thereof. The handle is designed for operation so that when it is moved upwardly the bowl will be flushed.

My improved controlling mechanism for the handle of the flushing apparatus consists of a pivotally mounted member 1 on the seat B. This member is formed with a substantially triangular portion 2 which presents cam surfaces 3 and 4. Immediately below the portion 2 the member is formed to provide a hook 5 which is designed so that it will be normally positioned above the controlling handle E as shown in Fig. 1. A stud 6 extends from the bowl A

at one side thereof and it is disposed in the path of movement of the member 1 so as to bear against the surfaces 3 and 4 for a purpose to be hereinafter described. A spring 7 or the equivalent thereof is employed for normally holding the member 1 against the stud 6.

In operation of the improved handle controlling mechanism herein described and shown, when pressure is released from the seat B the same will move upwardly under tension of the spring C. It will be seen that when pressure is applied to the seat B to move it against the tension of the spring C the face 4 of the member 1 will ride against the stud 6 so as to move the member 1 outwardly, after which under tension of the spring 7 the member 1 will be moved inwardly to cause the hook 5 thereof to engage the lever E. When pressure is released from the seat the latter under tension of the spring C will move upwardly, carrying therewith the member 1 which latter will be carried in a path with the stud 6 so that the face 3 will ride against the stud to move the lever E upwardly for the purpose of operating the flushing apparatus to flush the bowl. It will of course be understood that the stud 6 is positioned with respect to the face 3 of the member 1 to allow a direct vertical movement of the member for a predetermined distance to effectively obviate disengagement of the member from the controlling lever and insuring carrying of the lever upwardly to the desired position to produce the operative movement thereof.

I claim:

1. In flushing apparatus for closet bowls, a pivotally mounted spring controlled seat for the bowl, a valve controlling lever, a pivotally mounted actuating element supported by the seat and constructed to engage the valve controlling lever of the flushing apparatus when pressure is applied to the seat and to actuate the valve lever on movement of the seat to its normal position, and means located in the path of the said movable element to move the same to disengaged position from the said valve controlling lever of the flushing apparatus on movement of the seat to its normal position.

2. In flushing apparatus for closet bowls, a pivotally mounted spring controlled seat, a valve controlling lever, a pivotally mounted valve lever actuating element supported by

the seat and provided with a valve lever engaging hook engaging the lever when the seat is depressed, and means operating to engage the said actuating element and move the same to a disengaged position from the valve lever on movement of the seat to its normal position.

3. In flushing apparatus for closet bowls, a movable seat normally elevated above the bowl, a valve controlling lever, a spring controlled actuating element supported by the seat and located directly above the valve controlling lever of the flush apparatus and

operating to engage the lever when pressure is applied to the seat, a cam surface formed on the actuating element, and means on the bowl for engaging the said cam surface so as to move the lever to disengaged position from the valve controlling lever on movement of the seat to its normal position.

In testimony whereof I affix my signature in presence of two witnesses.

JAMES EARL FURLONG.

Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
